

# SYSTEM AND METHOD FOR ADDRESSABLE LIGHT- DIRECTED MICROARRAY PRINTING

## Abstract of Disclosure

Systems and methods are described for synthesizing probe arrays of polymers. In one such system, a network server processes customer orders to provide data indicative of at least one probe array sequence desired by the customer to be included in a synthesized probe array. A probe array design and control computer executes a probe array design application that processes the probe and array configuration data to provide probe array design data that is then processed by a manufacturing control application to provide gating data. A probe array manufacturing apparatus selectively switches optical transfer elements between substantially light-passing and substantially light-not-passing states in response to the gating data. Light from those optical transfer elements in the light-passing states strikes one or more biological probe array substrates, thereby enabling selective addition of monomers, such as nucleotides, amino acids or saccharides, to the substrate.

Patent Application No. 10/000,000

Figures

Figure 1: A vertical column of small, illegible text or symbols, possibly a list of items or a table of contents.